

# AIR-CELL Insulbreak®

## THERMAL BREAK SOLUTION



- **Delivers R0.20 thermal break**  
Solution for BCA compliance for steel-framed construction.
- **Advanced thermal performance**  
Helps achieve a 6-star house energy rating.
- **Three products in one**  
Acts as a thermal break, insulation, and vapour barrier in single application.
- **Fibre-free, non-allergenic, non-itchy**  
Poses no health and safety risk and is non-asthmatic.
- **Quick and easy to install**  
Saves time and helps reduce labour costs compared to conventional bulk insulation.
- **Tough, strong, durable**  
Rated Extra Heavy Duty.
- **Waterproof and unaffected by moisture**  
Ideal in humid climates and protects against water damage.
- **Anti-bacterial and anti-fungal**  
Will not promote the growth of fungi or bacteria.
- **Rodent and insect resistant**  
Does not provide a nesting medium for rodents and insects.
- **Compliant with Australian Standards**  
Complies with AS/NZS 4859.1.



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# AIR-CELL Insulbreak®

## Product Description

*Kingspan AIR-CELL Insulbreak®* is a 3-in-1 insulation, vapour barrier and thermal break solution for steel-framed construction. In steel-framed buildings *Kingspan AIR-CELL Insulbreak®* delivers the R0.20 thermal break required for BCA compliance\*, reducing thermal bridging and conductivity between building elements.

*Kingspan AIR-CELL Insulbreak®* is also commonly used in non-steel framed applications such as brick veneer walls and timber framed roofs.

*Kingspan AIR-CELL Insulbreak®* is manufactured with a patented physically cross-linked, closed-cell foam structure, and sandwiched by highly reflective foil surfaces.

\* Refer BCA Vol. 1 Section J 1.3(d), 1.5(e); Vol. 2 3.12.1.2(c), 3.12.1.4(d)

Product Data		
Product Thickness	6.5mm	8mm
	<b>AIR-CELL Insulbreak® 65</b>	<b>AIR-CELL Insulbreak® 80</b>
Thermal Break	R0.20	R0.25
Roll Diameter	455 mm	500 mm
Roll Weight	9.5 kg	10 kg
Roll Size	1350mm x 22.25 m (30 m <sup>2</sup> )	
Reflectance		
Anti-Glare Face	95%	
Reflective Face	97%	
Emittance		
Anti-Glare Face	E0.05	
Reflective Face	E0.03	

## Thermal Performance

Application	Heat Flow In	Heat Flow Out
<b>Steel stud-framed walls</b>		
<b>AIR-CELL Insulbreak® 65</b>	R <sub>T</sub> 1.6	R <sub>T</sub> 1.8
<b>AIR-CELL Insulbreak® 80</b>	R <sub>T</sub> 1.7	R <sub>T</sub> 1.9
<b>Commercial office roof<sup>^</sup></b>		
<b>AIR-CELL Insulbreak® 65</b>	R <sub>T</sub> 3.2	R <sub>T</sub> 1.4
<b>Brick veneer walls</b>		
<b>AIR-CELL Insulbreak® 65</b>	R <sub>T</sub> 1.9	R <sub>T</sub> 2.2

<sup>^</sup> Suspended ceiling at 100mm-1200mm depth.

The R-values shown are Total R-values for the building element as required by the Energy Provisions of the Building Code of Australia. Kingspan AIR-CELL® products are manufactured, tested and packaged in conformance with AS/NZS 4859.1:2002 - Amdt 1. The contribution of the product Total R-values depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on the upward facing surfaces and in those cavities that are ventilated.

## Product Testing

Test	Test Method	Result
Corrosion Resistance	AS/NZS 4859.1 Appendix I	Pass
Flammability	AS 1530.2	Low (Index ≤ 5)
Ignitability		
Flame Spread	AS 1530.3	0/0/0/0-1
Heat Release		
Smoke Release		
Cone Calorimeter	AS/NZS 3837	Group 1
Thermal Resistance	ASTMC518	R0.20 (6.5 mm) R0.25 (8 mm)
Emittance	ASTM-E408	Reflective E0.03 Anti-Glare E0.05
Vapour Transmission	ASTM-E96	Medium
Dry Delamination	AS/NZS 4201.1	Pass
Wet Delamination	AS/NZS 4201.2	Pass
Shrinkage	AS/NZS 4201.3	≤ 0.5%
Duty	AS 4200.1 6.1.4	Extra Heavy

